# Abstract

The following report documents the attempt to design a safe and reliable process for transporting *Louder Space’s* musical gear that requires minimal physical demand. Design specifications were derived from customer requirements as well as human factors principles. The transportation process was broken down into systematic process steps and standardized, making use of lean methodologies in order to reduce the number of non-value steps involved. Furthermore, a model portable storage unit for miscellaneous gear was developed to the specifications determined by the band using 3D modeling, as well as certain limiting constraints. Once the customer approved the prototype, the product was broken down into a bill of materials and manufactured. Once the product and improved process were implemented, extensive analysis revealed a profit of about $2,485 each year.